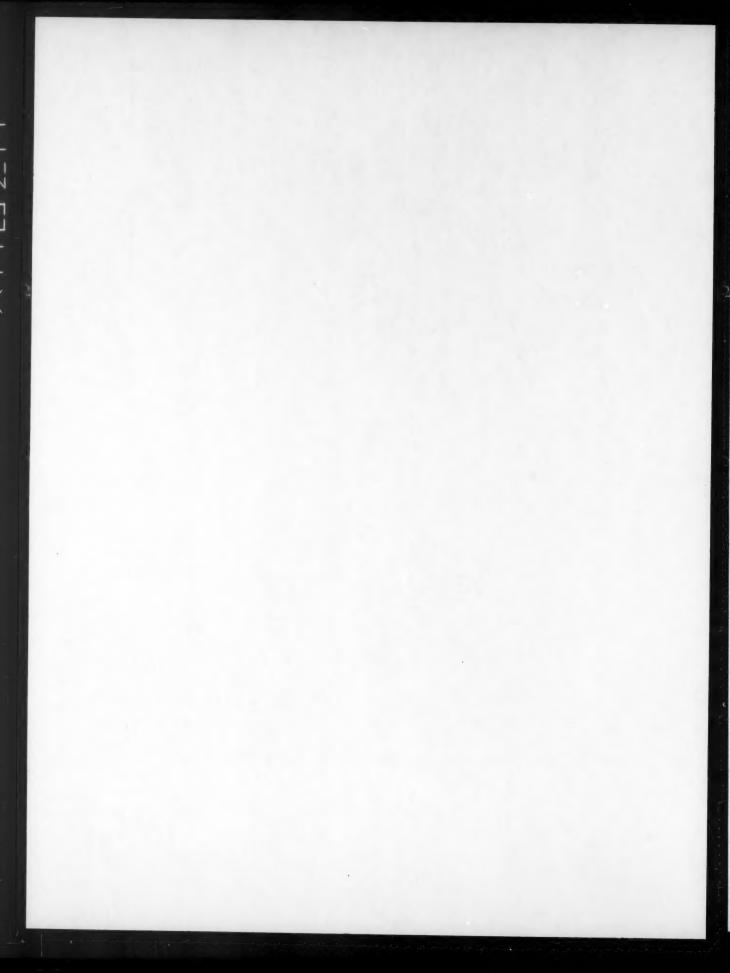
INDEX

SOLAR SYSTEM RESEARCH Volume 11, Numbers 1-4, 1977



SOLAR SYSTEM RESEARCH

Volume 11, Numbers 1-4, 1977

(A translation of Astronomicheskii Vestnik)

A

Aleksandrov, Yu. V. - 114 Artemev, A. V. - 30 Aryutkina, A. A. - 30. 88 Atai, A. A. - 72

B

Bakharev, A. M. - 47, 159 Begkhanov, M. - 188 Bel'kovich, O. I. - 124 Boyarkina, A. P. - 56 Bronshtén, V. A. - 36, 56, 62

C

Chernov, V. M. - 159 Chushkin, P. I. - 55

D

Dabizha, A. I. - 59 Dermendzhiev, V. N. - 192 Dychko, I. A. - 97

E

Efanov, V. A. - 19 Emel'yanenko, V. V. - 156

F

Fadeev, V. E. - 99 Fel'dshtein, Ya. I. - 50 Florenskii, P. V. - 150 Frolov, V. V. - 92

C

Gendler, T. S. - 150 Golenetskii, S. P. - 103 Golubev, V. A. - 95

ī

Ibragimov, N. B. - 72

Ivanova, G. M. - 171

K

Katasev, L. A. - 85 Khanan'yan, A. A. - 85 Khomutov, S. Yu. - 97 Kiselev, S. A. - 97 Kislyakov, A. G. - 19 Kolesnikov, E. M. - 103, 171 Kondrat'eva, E. D. - 124 Konyukhov, A. S. - 95 Korobeinikov, V. P. - 55 Kostylev, K. V. - 41, 128 Kovbasyuk, L. D. - 197 Kovshun, I. N. - 3, 75 Kramer, E. N. - 144, 185 Krass, M. S. - 99 Kremneva, N. M. - 92 Kryachko, V. I. - 97 Kulagin, I. S. - 197 Kuz'min, R. N. - 150

L

Lupishko, D. F. - 114 Lupishko, T. A. - 114 Lyul', A. Yu. - 171

M

Martynenko, V. V. - 92 Matsukov, K. P. - 119 Moiseev, I. G. - 19 Morozhenko, A. V. - 68 Mukhamednazarov, S. - 47, 82, 137, 188 Murashov, D. A. - 103 Murnikov, B. A. - 144 Musii, V. I. - 144

N

Nesterov, N. S. - 19 Nikolov, N. S. - 192

P

Priboeva, N. V. - 23

R

Radzievskii, V. V. - 30, 88 Revina, I. A. - 53 Russo, Yu. D. - 144

S

Shestaka, I. S. - 185
Shodiev, U. - 47
Shteins, K. A. - 53
Shteinshleiger, V. B. - 19
Shurshalov, L. V. - 55
Sincheskul, V. N. - 97
Skrynnik, G. V. - 161
Slavinskaya, A. A. - 97
Smirnov, V. A. - 82
Steklov, A. F. - 179
Stepanok, V. V. - 103
Sumaruk, P. V. - 50
Svetashkova, N. T. - 41, 128

T

Teifel, V. G. - 10 Timchenko, E. A. - 144

V

Vasil'ev, A. M. - 124

z

Zagatin, V. I. - 19



SOLAR SYSTEM RESEARCH Volume 11, Numbers 1-4, 1977

(A translation of Astronomicheskii Vestnik)

Volume 11, Number 1 January-March, 1977

	Engl./	Russ
Ten Years of "Astronomicheskii Vestnik"	1	3
- I. N. Kovshun	3	5
Latitude Differences in the Structure of Saturn's Cloud Layer – V. G. Teifel Radio Emission of Planets in the H_2O $\lambda = 1.35$ -cm Line – V. A. Efanov, V. I. Zagatin,	10	14
A. G. Kislyakov, I. G. Moiseev, N. S. Nesterov, and V. B. Shteinshleiger Investigation of Differences in Color in Selected Areas on the Lunar Surface. II. The	19	25
Areas of Tycho and the Alpine Valley - N. V. Priboeva Density of Meteoric Material in the Vicinity of a Planet - A. V. Artemev,	23	30
A. A. Aryutkina, and V. V. Radzievskii	30	40
Initial and Terminal Mass of a Meteorite - V. A. Bronshtén	36	. 47
I. Algorithm of the Method - K. V. Kostylev and N. T. Svetashkova Photometry of Televised Spectra of Meteor Trails - A. M. Bakharev,	41	
S. Mukhamedi. , and U. Shodiev	47	60
in the Polar Cap - P. V. Sumaruk and Ya. I. Fel'dshtein	50	64
Selection of Discoveries in the Concentration of Perihelia of Cometary Orbits		
- K. A. Shteins and I. A. Revina	53	67
LETTERS TO THE EDITOR On the Article of A. P. Boyarkina and V. A. Bronshtén ("Energy of the Tunguska		
Meteorite Explosion and Consideration of the Atmosphere's Inhomogeneity")		
- V. P. Korobeinikov, P. L. Chushkin, and L. V. Shurshalov	55	69
and V. A. Bronshtén	56	70
and v. n. broushed.	00	10
Volume 11, Number 2 April-June, 1977		
A New Interpretation of the Structure of Meteorite Craters - A. I. Dabizha	59	73
Impact and Explosion Meteorite Craters on the Earth and Moon - V. A. Bronshtén	62	78
Optical Parameters of the Atmosphere and Surface of Mars IV. Physical Properties of the Dust Clouds and Mean Radius of Surface-Layer Particles on the		
Arabian Continent - A. V. Morozhenko	68	85
CH ₄ Absorption Bands in the Spectrum of Uranus - A. A. Atai and N. B. Ibragimov The Ascending Branches of Theoretical Light-Curves of a Meteor and the Meteoric	72	90
Mass Scale – I. N. Kovshun	75	94
in the Spectra of Meteors - S. Mukhamednazarov and V. A. Smirnov Determination of the Turbulent Diffusion Coefficient from Photographs	82	101
of a Meteor Trail - L. A. Katasev and A. A. Khanan'yan	85	105

	Engl./	Russ
Annual and Monthly Variations of the Jacobi-Integral Constant for the Moon		
- A. A. Aryutkina and V. V. Radzievskii	88	108
BRIEF COMMUNICATIONS Structure and Relative Activity of Leonid Radiants in 1972 - N. M. Kremneva,		
V. V. Martynenko, and V. V. Frolov	92	112
and A. S. Konyukhov	95	115
S. A. Kiselev, V. I. Kryachko, S. Yu. Khomutov, and A. A. Slavinskaya	97	117
Volume 11, Number 3 July-September, 1977		
The Thermal History of the Moon - M. S. Krass and V. E. Fadeev	99	121
and D. A. Murashov	103	126
and T. A. Lupishko	114	137
of Comets - K. P. Matsukov	119	144
E. D. Kondrat'eva, and A. M. Vasil'ev	124	150
- K. V. Kostylev and N. T. Svetashkova The Study of Meteor Bright Line Spectra Using an Astronomical Television System	128	154
- S. Mukhamednazarov	137	164
and E. A. Timchenko	144 150	172 179
BRIEF COMMUNICATIONS	130	113
Determining the Separation Velocities of the Nuclei of Comet Taylor (1916 I) during Its Disintegration – V. V. Emel'yanenko	156	186
Transitory Phenomena on the Moon during Lunar Eclipses - A. M. Bakharev		
and V. M. Chernov	159	189
Volume 11, Number 4 October-December, 1977		
Meteorite Craters on the Earth - G. V. Skrynnik	161	198
- E. M. Kolesnikov, A. Yu. Lyul', and G. M. Ivanova	171	209
Atmospheres of Planetary Satellites. I. Possible Existence – A. F. Steklov The Meteor Luminous Efficiency Coefficient Based on Photographic Observations	179	219
- E. N. Kramer and I. S. Shestaka	185	226
and S. Mukhamednazarov	188	230
and V. N. Dermendzhiev	192	236
- L. D. Kovbasyuk and I. S. Kulagin	197	243

	Engl./Russ.
INDEX	
Author Index, Volume 11, Numbers 1-4, 1977	205
Tables of Contents, Volume 11, Numbers 1-4, 1977	207

